



## VaporFLEX

### 1. Product Description

The VaporFLEX® product line has been designed to perform as a highly effective vapor barrier that impedes the infiltration of moisture and water vapor through concrete slabs and foundations. VaporFLEX® is used to discourage mold growth and to prevent harmful vapors from migrating through the concrete into building interiors. It exceeds all of the standards for a CLASS A vapor barrier as set out by ASTM E1745 requirements. The Class A is ASTM's highest performance standard for "Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs." VaporFLEX® vapor barriers are available in both a 15 mil and a 10 mil thick variation, each exceeding the physical requirements of ASTM E1745. They are available in easy-to-use rolls, 12' x 150' and 15' x 196' respectively, making them easy to transport and install. VaporFLEX® is readily available through any of our Western U.S. locations, Canadian locations, or various National Distributor accounts.

### 2. Technical Data

Materials information is on page 2.

### 3. Installation

Where appropriate, install VaporFLEX® vapor barriers in accordance with ASTM E 1643-98 (Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs). The granular base needs to be compacted and graded in accordance with the projects plans & specifications. The base should be free of all protruding objects and debris. VaporFLEX® should be unrolled parallel to the direction that the concrete will be poured. After unrolling, pull out the folds to the full roll width. The vapor barrier should be left deployed in a relaxed state. Overlap all seams a minimum of 6" and continuously seal the overlap with 4" VaporFLEX® Tape. Contact Layfield for detailed instructions on how to seal around penetrations.



### 4. Availability and Cost

Available from Layfield or distributors. Call 425-254-1075 Pacific time  
780-453-6731 Mountain time, or  
905-761-9123 Eastern time

### 5. Inspected By

Layfield Environmental Systems Corp.  
Layfield Geosynthetics & Ind. Fabrics Ltd.

### 6. Warranty

Products sold will meet Layfield's published specifications at time of sale. Full warranty details are available from Layfield.

### 7. Filing Systems

[www.LayfieldGroup.com](http://www.LayfieldGroup.com)  
[www.geomembranes.com](http://www.geomembranes.com)



**8. Material Properties**

20 Dec 2011		VaporFlex® Material Properties <sup>1</sup>		
Test	ASTM	Class A Requirements <sup>2</sup>	VaporFlex® 15	VaporFlex® 10
Thickness(Nominal)	D5199	N/A	15 mil 0.375 mm	10 mil 0.250 mm
Baseline Water Vapor Permeance	E154 Section 7	0.30 Perms	0.020 Perms	0.044 Perms
Permeance after Wetting Drying and Soaking	E154 Section 8	0.30 Perms	0.050 Perms	0.057 Perms
Tensile Strength After Soaking	E154 Section 9	45 ppi <sup>3</sup>	64.9 ppi	62 ppi
Resistance to Puncture	E154 Section 10	2200 grams	2968 grams	3500 grams
Resistance to Plastic Flow & Elevated Temperature	E154 Section 11	0.30 Perms	0.026 Perms	0.067 Perms
Effect of Low Temperature Bending	E154 Section 12	0.30 Perms	0.038 Perms	0.068 Perms
Resistance to Organisms and Substrates in Contact	E154 Section 13	0.30 Perms	0.044 Perms	0.073 Perms
Roll Dimensions			12' x 150'	15' x 196'
<p>(1) Properties tested by the CTT Group, not intended as minimum properties.  (2) The requirements of a Class A vapor retarder according to ASTM E1745.  (3) ppi = pounds (force)/inch width</p>				



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Environmental Systems

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